

## **Top 100 Oil and Gas Fields for 1998**

## Top 100 Oil and Gas Fields for 1998

This appendix presents estimates of the proved reserves and production of the top 100 oil and gas fields. The oil field production and reserve data include both crude oil and lease condensate. The gas field production and reserve data is total wet natural gas (associated-dissolved natural gas and nonassociated natural gas, wet after lease separation).

**Table B1. Top 100 Oil Fields for 1998**

The top 100 oil fields in the United States as of December 31, 1998, had 14,886 million barrels of proved reserves accounting for 67 percent of the total United States (**Table 6 and Table 16**). Although there is considerable grouping of field-level statistics within the tables, rough orders of magnitude can be estimated for the proved reserves and production of most fields. Many of the fields in the top 100 group are operated by only one or two operators, therefore, the totals for proved reserves are grouped as top 10, top 20, top 50, and top 100 to avoid revealing company proprietary data.

In the top 20 oil fields for 1998 there are three fields, Mississippi Canyon Block 807 (Mars), Green Canyon Block 244 (Troika), and Mississippi Canyon Block 854 (Ursa) which are in the deep water of the Gulf of Mexico Federal Offshore.

The top 100 oil fields in the United States as of December 31, 1998, had 1,143 million barrels of production, or 53 percent of the total (**Table 6 and Table 15**). Many of the oil fields in the top 100 are very old, 50 oil fields were discovered prior to 1950. The oldest, Coalinga in California, was discovered in 1887. The newest, Garden Banks Block 602, in the Gulf of Mexico Federal Offshore was only discovered in 1998.

The oil fields with newer discovery dates are typically located in the Gulf of Mexico Offshore and Alaska. Of the top 100 oil fields 50 percent are equally in the Gulf of Mexico Offshore and Texas, an additional 29 percent are in California and Alaska. There were 15 different fields in this year's tabulation than in last years.

**Table B2. Top 100 Gas Fields for 1998**

The top 100 gas fields in the United States as of December 31, 1998, had 81,628 billion cubic feet of wet natural gas proved reserves, or 47 percent of the total (**Table 9**).

The top 100 gas fields in the United States as of December 31, 1998, had 6,574 billion cubic feet of production, or 34 percent of the total (**Table 9**). Fewer of the gas fields in the top 100 are as old as the top 100 oil fields. There were 20 gas fields that were discovered prior to 1946. Gas fields in the top 100 are newer than the oil fields, 51 gas fields were discovered after 1967. The oldest, Big Sandy in Kentucky, was discovered in 1881. The newest, Mississippi Canyon Block 810, in the Gulf of Mexico Federal Offshore was only discovered in 1996.

The gas fields with newer discovery dates are located in the Gulf of Mexico Offshore, south Texas and Virginia. Several of the same fields are in both tables. Of the top 100 gas fields 28 percent are in Texas, 15 percent in the Gulf of Mexico Offshore, an additional 26 percent are in Oklahoma and Wyoming. There were 9 different fields in this year's tabulation than in last year's table.

**Table B1. Top 100 U.S. Fields Ranked by Oil<sup>a</sup> Proved Reserves, from Reported 1998 Field Level Data**  
(Million Barrels of 42 U.S. Gallons)

Field Name	Location	Discovery Year	Proved Reserves Rank Group	Reported Production Rank Group
Prudhoe Bay	AK	1967	1-10	222.0
Midway-Sunset	CA	1901	1-10	49.6
Kuparuk River	AK	1969	1-10	91.8
Belridge South	CA	1911	1-10	44.9
Yates	TX	1926	1-10	19.3
Kern River	CA	1899	1-10	46.8
Wasson	TX	1937	1-10	16.3
Elk Hills	CA	1919	1-10	19.3
Mississippi Canyon Block 807	GF	1989	1-10	43.2
Milne Point	AK	1982	1-10	20.4
<b>Top 10 Volume Subtotal</b>			<b>8,084.0</b>	<b>573.7</b>
<b>Top 10 Percentage of U.S. Total</b>			<b>36.1%</b>	<b>26.4%</b>
Slaughter	TX	1937	11-20	14.9
Hondo	CA	1969	11-20	13.9
Spraberry Trend Area	TX	1950	11-20	20.1
Endicott	AK	1978	11-20	17.0
Point McIntyre	AK	1988	11-20	47.6
Alpine	AK	1994	11-20	0.0
Levelland	TX	1945	11-20	9.3
Green Canyon Block 244	GF	1994	11-20	20.2
Mississippi Canyon Block 810	GF	1992	11-20	0.0
San Ardo	CA	1947	11-20	4.5
<b>Top 20 Volume Subtotal</b>			<b>10,094.3</b>	<b>147.4</b>
<b>Top 20 Percentage of U.S. Total</b>			<b>45.1%</b>	<b>33.2%</b>
Cymric	CA	1916	21-50	17.7
Cowden North	TX	1930	21-50	7.1
Wilmington	CA	1932	21-50	19.0
Lost Hills	CA	1910	21-50	11.5
Pescado	CA	1970	21-50	11.1
Sho-Vel-Tum	OK	1905	21-50	9.3
Vacuum	NM	1929	21-50	7.6
East Texas	TX	1930	21-50	13.8
Greater Aneth Area	UT	1956	21-50	6.2
Alaminos Canyon Block 25	GF	1997	21-50	0.0
Rangely	CO	1902	21-50	6.8
Green Canyon Block 205	GF	1988	21-50	0.0
Coalinga	CA	1887	21-50	8.9
Fullerton	TX	1942	21-50	6.4
Seminole	TX	1936	21-50	11.5
Hawkins	TX	1940	21-50	3.4
Mississippi Canyon Block 935	GF	1994	21-50	0.0
Garden Banks Block 260	GF	1995	21-50	0.5
Ventura	CA	1916	21-50	4.9
Garden Banks Block 426	GF	1987	21-50	26.5
Salt Creek	TX	1942	21-50	8.5
Wasson 72	TX	1940	21-50	1.2
Badami	AK	1990	21-50	0.7
Niakuk	AK	1984	21-50	18.5
McElroy	TX	1926	21-50	6.5
Howard-Glasscock	TX	1925	21-50	3.5
Robertson North	TX	1956	21-50	3.3
Jay	FL & AL	1970	21-50	4.6
Wattenberg	CO	1970	21-50	5.1
Viosca Knoll Block 990	GF	1981	21-50	18.6
<b>Top 50 Volume Subtotal</b>			<b>12,896.3</b>	<b>963.8</b>
<b>Top 50 Percentage of U.S. Total</b>			<b>57.7%</b>	<b>44.4%</b>

**Table B1. Top 100 U.S. Fields Ranked by Oil<sup>a</sup> Proved Reserves, from Reported 1998 Field Level Data  
(Continued)  
(Million Barrels of 42 U.S. Gallons)**

Field Name	Location	Discovery Year	Proved Reserves Rank Group	Reported Production Rank Group
Bay Marchand Block 2	GF & LA	1949	51-100	5.6
Monument	NM & UT	1935	51-100	3.1
Green Canyon Block 158	GF	1992	51-100	0.0
Viosca Knoll Block 956	GF	1985	51-100	16.5
Green Canyon Block 112	GF	1992	51-100	0.0
West Delta Block 30	GF	1949	51-100	8.9
Goldsmith	TX	1935	51-100	4.1
Eugene Island SA Block 330	GF	1971	51-100	10.2
West Sak	AK	1969	51-100	0.6
Giddings	TX	1960	51-100	16.7
Ewing Bank Block 873	GF	1991	51-100	18.1
Beverly Hills	CA	1900	51-100	1.6
Bluebell-Altamont	UT	1949	51-100	3.6
Jo-Mill	TX	1953	51-100	2.4
Garden Banks Block 602	GF	1998	51-100	0.0
Ewing Bank Block 921	GF	1993	51-100	1.1
Huntington Beach	CA	1920	51-100	3.8
Dollarhide	TX & NM	1945	51-100	3.6
T X L	TX	1944	51-100	2.5
Eunice Monument	NM	1929	51-100	1.3
Main Pass SA Block 299	GF	1967	51-100	5.1
Viosca Knoll Block 915	GF	1993	51-100	0.0
Cedar Hills	ND	1995	51-100	5.6
Kern Front	CA	1925	51-100	2.0
Viosca Knoll Block 786	GF	1996	51-100	0.0
Brea-Olinda	CA	1897	51-100	1.4
Oregon Basin	WY	1912	51-100	4.0
Lisburne	AK	1967	51-100	2.5
Fitts East	OK	1944	51-100	0.7
Hartzog Draw	WY	1976	51-100	2.1
Tarn	AK	1991	51-100	3.5
Cogdell	TX	1949	51-100	0.3
Pennel	MT	1955	51-100	1.8
Ship Shoal Block 169	GF	1961	51-100	4.9
Viosca Knoll Block 825	GF	1988	51-100	7.8
Grayburg-Jackson	NM	1929	51-100	3.7
Hobbs	NM	1928	51-100	1.7
Arroyo Grande	CA	1906	51-100	0.5
Foster	TX	1932	51-100	1.8
Lake Washington	LA	1931	51-100	1.6
Welch	TX	1942	51-100	2.1
Beta	CA	1976	51-100	2.9
Painter Reservoir East	WY	1979	51-100	3.8
Hamilton Dome	WY	1918	51-100	1.7
South Pass Block 61	GF	1955	51-100	7.0
Justis	NM	1957	51-100	0.8
Golden Trend	OK	1945	51-100	2.3
Cedar Lake	TX	1939	51-100	2.3
Postle	OK	1958	51-100	1.8
Green Canyon Block 254	GF	1994	51-100	0.0
<b>Top 100 Volume Subtotal</b>			<b>14,886.3</b>	<b>1,143.1</b>
<b>Top 100 Percentage of U.S. Total</b>			<b>66.5%</b>	<b>52.7%</b>

<sup>a</sup>Includes lease condensate.

Notes: The U.S. total production estimate of 2,169 million barrels and the U.S. total reserves estimate of 22,370 million barrels, used to calculate the percentages in this table, are from the combined totals of Table 6 and Table 15 in this publication. Column totals may not add due to independent rounding.

Source: Energy Information Administration, Office of Oil and Gas.

**Table B2. Top 100 U.S. Fields Ranked by Gas<sup>a</sup> Proved Reserves, from Reported 1998 Field Level Data**  
(Billion Cubic Feet)

Field Name	Location	Discovery Year	Proved Reserves Rank Group	Reported Production Rank Group
Blanco / Ignacio-Blanco	NM & CO	1927	1-10	718.1
Basin	NM	1947	1-10	662.6
Hugoton Gas Area	KS & OK & TX	1922	1-10	468.6
Prudhoe Bay	AK	1967	1-10	252.7
Madden	WY	1968	1-10	55.1
Carthage	TX	1936	1-10	222.7
Mobile Bay	AL	1979	1-10	149.4
Big Piney-Labarge	WY	1924	1-10	39.1
Oakwood	VA	1990	1-10	32.1
Wattenburg	CO	1970	1-10	100.9
<b>Top 10 Volume Subtotal</b>			<b>39,974.0</b>	<b>2,701.4</b>
<b>Top 10 Percentage of U.S. Total</b>			<b>23.2%</b>	<b>13.8%</b>
Antrim	MI	1965	11-20	136.0
Panhandle West	TX	1918	11-20	123.2
Fogarty Creek	WY	1975	11-20	30.8
Big Sandy	KY	1881	11-20	48.7
Giddings	TX	1960	11-20	225.6
Natural Buttes	UT	1940	11-20	55.4
Red-Oak Norris	OK	1910	11-20	64.6
Cook Inlet North	AK	1962	11-20	53.7
Panoma Gas Area	KS	1956	11-20	92.7
Beluga River	AK	1962	11-20	33.2
<b>Top 20 Volume Subtotal</b>			<b>50,448.6</b>	<b>863.8</b>
<b>Top 20 Percentage of U.S. Total</b>			<b>29.3%</b>	<b>18.2%</b>
Elk Hills	CA	1919	21-50	98.0
Spraberry Trend Area	TX	1953	21-50	69.2
Oak Hill	TX	1967	21-50	66.5
Lake Ridge	WY	1981	21-50	15.2
Whitney Canyon-Carter Creek	WY	1978	21-50	76.2
Gomez	TX	1963	21-50	63.5
Strong City District	OK	1972	21-50	70.5
East Breaks Block 945	TX	1994	21-50	0.0
Mocane-Laverne Gas Area	OK & KS & TX	1947	21-50	66.3
Lower Mobile Bay-Mary Ann	AL	1979	21-50	35.8
Mobile Block 823	GF	1983	21-50	54.2
Sawyer	TX	1960	21-50	48.6
Golden Trend	OK	1946	21-50	41.9
Mississippi Canyon Block 731	GF	1987	21-50	43.9
Mississippi Canyon Block 810	GF	1996	21-50	0.0
Vaquillas Ranch	TX	1978	21-50	71.6
Viosca Knoll Block 956	GF	1985	21-50	74.6
Knox	OK	1916	21-50	51.3
Wasson	TX	1937	21-50	8.4
Ozona	TX	1953	21-50	48.9
Watonga-Chickasha Trend	OK	1948	21-50	64.6
Judge Digby	LA	1977	21-50	21.9
McArthur River	AK	1968	21-50	72.5
Bruff	WY	1969	21-50	47.7
Bob West	TX	1990	21-50	74.3
Garden Banks Block 426	GF	1987	21-50	92.8
Wilburton	OK	1941	21-50	52.3
Drunkards Wash	UT	1989	21-50	30.1
Raton	CO	1994	21-50	10.0
Viosca Knoll Block 915	GF	1993	21-50	0.0
<b>Top 50 Volume Subtotal</b>			<b>67,420.2</b>	<b>5,036.0</b>
<b>Top 50 Percentage of U.S. Total</b>			<b>39.1%</b>	<b>25.7%</b>

**Table B2. Top 100 U.S. Fields Ranked by Gas<sup>a</sup> Proved Reserves, from Reported 1998 Field Level Data  
(Continued)  
(Billion Cubic Feet)**

Field Name	Location	Discovery Year	Proved Reserves Rank Group	Reported Production Rank Group
Anschutz Ranch East	UT & WY	1980	51-100	80.1
McAllen Ranch	TX	1960	51-100	84.7
Indian Basin	NM	1963	51-100	73.4
Mississippi Canyon Block 807	GF	1989	51-100	44.5
Kuparuk River	AK	1969	51-100	28.1
Elk City	OK	1947	51-100	38.8
Wamsutter	WY	1958	51-100	28.2
Kinta	OK	1914	51-100	42.9
Fairway	AL	1986	51-100	29.6
Nora	VA	1949	51-100	23.6
A W P	TX	1987	51-100	24.7
Garden Banks Block 260	GF	1992	51-100	2.8
Painter Reservoir East	WY	1979	51-100	34.1
Viosca Knoll Block 783	GF	1985	51-100	54.8
Rulison	CO	1956	51-100	21.3
Waltman	WY	1959	51-100	56.6
South Pass SA Block 89	GF	1969	51-100	34.1
Grand Valley	CO	1985	51-100	15.6
Hondo	CA	1969	51-100	21.3
Tip Top	WY	1928	51-100	18.3
Belridge South	CA	1911	51-100	17.4
Mississippi Canyon Block 354	GF	1977	51-100	37.1
Standard Draw	WY	1979	51-100	23.0
Pegasus	TX	1949	51-100	24.4
Green Canyon Block 244	GF	1994	51-100	31.8
Newark East	TX	1981	51-100	30.7
Verden	OK	1961	51-100	36.1
Willow Springs	TX	1938	51-100	25.6
Matagorda Island Block 623	GF	1980	51-100	100.3
Sarita East	TX	1967	51-100	36.6
Lake Arthur South	LA	1955	51-100	25.7
Moorewood NE	OK	1979	51-100	30.2
Double A Wells	TX	1980	51-100	36.0
Cedar Cove Coal Degas	AL	1983	51-100	31.1
Sugg Ranch	TX	1985	51-100	9.7
Boonsville	TX	1945	51-100	30.4
Jeffress NE	TX	1975	51-100	28.8
Trawick	TX	1949	51-100	22.1
Endicott	AK	1978	51-100	9.1
Mississippi Canyon Block 194	GF	1975	51-100	35.3
Stratton	TX	1937	51-100	15.2
Lost Hills	CA	1910	51-100	17.9
Cochranon	PA	1980	51-100	9.4
Blanco South	NM	1951	51-100	15.9
Kenai	AK	1959	51-100	9.0
Mississippi Canyon Block 292	GF	1996	51-100	0.0
Monte Christo	TX	1953	51-100	9.5
Sho-Vel-Tum	OK	1912	51-100	23.1
Carpenter	OK	1951	51-100	23.1
Puckett	TX	1952	51-100	35.9
<b>Top 100 Volume Subtotal</b>			<b>81,628.0</b>	<b>6,573.8</b>
<b>Top 100 Percentage of U.S. Total</b>			<b>47.3%</b>	<b>33.5%</b>

<sup>a</sup>Total wet gas after lease separation.

Note: The U.S. total production estimate of 19,622 billion cubic feet and the U.S. total reserves estimate of 172,443 billion cubic feet, used to calculate the percentages in this table, are from Table 9 in this publication. Column totals may not add due to independent rounding.

Source: Energy Information Administration, Office of Oil and Gas.